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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M25)	Compressive Strength(7days and 28days)	4 set /31-100 cum	30.52	8	8

AE 13

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Certificate No.: TC-5548

Format No: CP/TE/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-10-20-16** **Date: 23-07-2022**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore
Address	:	Shettyhalli Sub Division, BBMP, Bangalore
Project Name	:	Providing Chambers to Existing Borewell and Concealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division
Agency	:	Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore
Customer's Reference	:	EE/DD/W.O/64/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-07-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-07-2022
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.75	-
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-10-20-16** **Date: 19-08-2022**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing Chambers to Existing Borewell and Concealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division
Agency	:	Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore.
Customer's Reference	:	EE/DD/W.O/64/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-07-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	22-07-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Date: 24-07-2022

Lab ID	:	CP-2022-10-20-16
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division
Agency	:	Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore.
Customer's Reference	:	EE/DD/W.O/64/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-07-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-07-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	5437	5679	37.9	62.1	30-70
4	10 mm	4339	10018	66.8	33.2	10-35
5	4.75 mm	4649	14667	97.8	2.2	0-5
6	Pan	333	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID : **CP-2022-10-20-16**

Date: 24-07-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-10-20-16** **Date: 23-07-2022**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division
Agency	:	Sri. Naveen R (R N I Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA. Form, Bangalore.
Customer Reference	:	EE/DD/W.O/64/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-07-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-07-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-10-20-16** **Date: 23-07-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.5	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-10-20-16 **Date: 23-07-2022**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division

Agency : Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore.

Customer's Reference : EE/DD/W.O/64/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-07-2022

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 21-07-2022

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-10-20-16**

Date: 23-07-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: TC-5548

TEST RESULTS OF STEEL

Format No: CP/TF/01

Lab ID	:	**CP-2022-10-20-16**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division
Agency	:	Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore.
Customer's Reference	:	EE/DD/W.O/64/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-07-2022
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	22-07-2022

Date: 23-07-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Certificate No.: TC-5548

TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID : CP-2022-10-20-16

Date: 02-08-2022

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP Bangalore

Project Name : Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division

Agency : Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore.

Customer's Reference : EE/DD/W O/64/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-07-2022

Sample Type /Size : Precast Cover Slab (250 mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 29/07/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.54	250.53	2.856	31580	610.5	19.3	18.0	22.5
2	Cover Slab-2	200.68	250.56	2.956	31624	595.5	18.8	17.5	21.9
3	Cover Slab-3	200.72	250.63	2.745	31637	625.5	19.8	18.4	23.0

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Note:

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Format No CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-20-16**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. **Date: 01/08/2022**

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division

Agency : Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore.

Customer's Reference : EE/DD/W.O/64/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-07-2022

Customer ID : M25 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	25/07/2022	01/08/2022	150.15 X 150.94 X 149.13	22664	8.798	523.9	23.1	22.6
2	M25 Concrete	M25	25/07/2022	01/08/2022	150.94 X 149.97 X 150.01	22636	8.403	506.9	22.4	
3	M25 Concrete	M25	25/07/2022	01/08/2022	150.37 X 151.56 X 151.45	22789	9.055	510.1	22.4	

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-10-20-16 **Date: 22/08/2022**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division

Agency : Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore.

Customer's Reference : EE/DD/W.O/64/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-07-2022

Customer ID : M25 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	25/07/2022	22/08/2022	150.47 X 150.31 X 151.40	22617	8.745	611.8	27.1	27.5
2	M25 Concrete	M25	25/07/2022	22/08/2022	150.87 X 149.50 X 151.27	22555	8.111	598.6	26.5	
3	M25 Concrete	M25	25/07/2022	22/08/2022	150.27 X 150.85 X 149.10	22668	8.944	655.2	28.9	

* The results obtained are satisfactory as per standard requirements

Note:

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All information furnished by Customer/Representative

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Certificate No.: TC-5548

Format No CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-10-20-16

Date: 02/08/2022

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division

Agency : Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore.

Customer's Reference : EE/DD/W O/64/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-07-2022

Customer ID : M25 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	26/07/2022	02/08/2022	150.52 X 149.73 X 150.13	22537	8.744	522.8	23.2	22.8
2	M25 Concrete	M25	26/07/2022	02/08/2022	151.92 X 150.18 X 151.61	22815	8.409	517.9	22.7	
3	M25 Concrete	M25	26/07/2022	02/08/2022	150.00 X 150.92 X 149.65	22638	8.836	507.3	22.4	

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No. CP/TF/01

Lab ID : CP-2022-10-20-16

Date: 23/08/2022

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division

Agency : Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore.

Customer's Reference : EE/DD/W.O/64/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-07-2022

Customer ID : M25 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 23/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	26/07/2022	23/08/2022	151.92 X 150.62 X 151.50	22882	8.329	634.2	27.7	27.7
2	M25 Concrete	M25	26/07/2022	23/08/2022	149.34 X 151.93 X 151.60	22689	8.799	606.8	26.7	
3	M25 Concrete	M25	26/07/2022	23/08/2022	151.28 X 149.18 X 150.56	22568	8.634	643.0	28.5	

* The results obtained are satisfactory as per standard requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-10-20-16 **Date: 03/08/2022**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providing Chambers to Existing Borewell and Consealing to Road Surface Area in Ward No. 13 Shettihalli Sub Division

Agency : Sri. Naveen R (RNI Enterprises), No. 113, 3rd Main Road, AGS Colony, Anandnagara, HA Form, Bangalore.

Customer's Reference : EE/DD/W.O/64/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-07-2022

Customer ID : M25 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	27/07/2022	03/08/2022	149.88 X 151.60 X 152.00	22721	8.104	541.1	23.8	23.1
2	M25 Concrete	M25	27/07/2022	03/08/2022	150.90 X 150.76 X 150.69	22750	8.217	521.7	22.9	
3	M25 Concrete	M25	27/07/2022	03/08/2022	150.32 X 150.98 X 149.46	22695	8.225	512.4	22.6	

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